

# Fumaric acid, naphth-2-yl 2-ethylhexyl ester

<b>Inchi:</b>	InChI=1S/C22H26O4/c1-3-5-8-17(4-2)16-25-21(23)13-14-22(24)26-20-12-11-18-9-6-7-10
<b>InchiKey:</b>	GSKZDCPRCVIIGF-BUHFOSPRSA-N
<b>Formula:</b>	C22H26O4
<b>SMILES:</b>	CCCCC(CC)COC(=O)C=CC(=O)Oc1ccc2ccccc2c1
<b>Mol. weight [g/mol]:</b>	354.44

## Physical Properties

Property code	Value	Unit	Source
gf	-46.27	kJ/mol	Joback Method
hf	-458.94	kJ/mol	Joback Method
hfus	45.66	kJ/mol	Joback Method
hvap	87.03	kJ/mol	Joback Method
log10ws	-6.25		Crippen Method
logp	5.061		Crippen Method
mvol	288.200	ml/mol	McGowan Method
pc	1460.13	kPa	Joback Method
rinpol	2824.00		NIST Webbook
rinpol	2824.00		NIST Webbook
tb	909.70	K	Joback Method
tc	1129.77	K	Joback Method
tf	533.58	K	Joback Method
vc	1.103	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	892.64	J/mol×K	909.70	Joback Method
cpg	907.34	J/mol×K	946.38	Joback Method
cpg	921.00	J/mol×K	983.06	Joback Method
cpg	933.69	J/mol×K	1019.74	Joback Method
cpg	945.48	J/mol×K	1056.41	Joback Method
cpg	956.46	J/mol×K	1093.09	Joback Method
cpg	966.69	J/mol×K	1129.77	Joback Method
dvisc	0.0005922	Paxs	533.58	Joback Method

dvisc	0.0003399	Paxs	596.27	Joback Method
dvisc	0.0002169	Paxs	658.95	Joback Method
dvisc	0.0001496	Paxs	721.64	Joback Method
dvisc	0.0001095	Paxs	784.33	Joback Method
dvisc	0.0000839	Paxs	847.01	Joback Method
dvisc	0.0000667	Paxs	909.70	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U405831&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405831&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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